



SEQUENCE LISTING

Ans
B22
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<120> Persephin and Related Growth Factors

<130> 6029-2668

<140> 09/474,980
<141> 1999-12-29

<150> 08/519,777
<151> 1995-08-28

<160> 242

<170> Microsoft Word 97

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<213> Homo sapiens

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Val Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe
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Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu
35 40 45
Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
50 55 60
Arg Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser
65 70 75 80
Phe Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala
85 90 95
Arg Glu Cys Ala Cys Val
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<210> 2
<211> 100
<212> PRT
<213> Mus musculus

<400> 2
Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser
1 5 10 15
Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
20 25 30
Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
35 40 45
Arg Arg Leu Arg Gln Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
50 55 60

His Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu
 65 70 75 80

Asp Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu
 85 90 95

Cys Ala Cys Val
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 <211> 16
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 <213> Mus musculus

<220>
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 <222> (6)
 <223> Any Amino Acid

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 <213> Mus musculus

<220>
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 <222> (1)
 <223> Any Amino Acid

<220>
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 <222> (6)
 <223> Serine or Cysteine

<400> 4
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 1 5 10

<210> 5
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<220>
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 <222> (1)...(2)
 <223> Any Amino Acid

<220>
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 <222> (17)
 <223> Glutamine or Glutamic Acid

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 1 5 10 15

Xaa Val Ser Phe Leu Ser Val
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 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg
 1 5 10

<210> 7
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 <212> PRT
 <213> Homo sapiens

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 1 5 10 15

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 20 25 30

Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
 35 40 45

Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60

Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
 65 70 80

Pro Gly Pro Arg Arg Ala Gly Pro Arg Arg Arg Ala Arg Ala
 85 90 95

Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val
 100 105 110

Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg
 115 120 125

Tyr Cys Ala Gly Ala Cys Glu Ala Ala Arg Val Tyr Asp Leu Gly
 130 135 140

Leu Arg Arg Leu Arg Gln Arg Arg Leu Arg Arg Glu Arg Val Arg
 145 150 155 160

Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe
 165 170 175

Leu Asp Ala His Ser Arg Tyr His Thr Val His Glu Leu Ser Ala Arg
 180 185 190

Glu Cys Ala Cys Val
 195

<210> 8
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 <213> Mus musculus

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 1 5 10 15

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 20 25 30

Leu Gly Pro Ala Leu Ala Pro Leu Arg Arg Pro Pro Arg Thr Leu Asp
 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile
 65 70 75 80
 Pro Gly Pro Arg Arg Ala Gly Pro Arg Arg Arg Ala Arg Pro
 85 90 95
 Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu
 100 105 110
 Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys
 115 120 125
 Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg
 130 135 140
 Arg Leu Arg Gln Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His
 145 150 155 160
 Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp
 165 170 175
 Val His Ser Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys
 180 185 190
 Ala Cys Val
 195

B
22

<210> 9
 <211> 306
 <212> DNA
 <213> Homo sapiens

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 ggcctgggct acgcgtccga cgagacggtg ctgttccgt actgcgcagg cgcctgcgag 120
 gctgcccgcgc gcgtctacga cctcgggctg cgacgactgc gccagcggcg ggcctgcgg 180
 cgggagcggg tgcgcgcgca gcccgtgc cgcggacgg cttacgagga cgagggttcc 240
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<210> 10
 <211> 300
 <212> DNA
 <213> Mus musculus

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 atccgcatct acgaccctggg cttcggcgc ctgcgcacgc ggaggcgcgt ggcgcagagag 180
 cgggagcggg cgacccgtg ttgtcgcccc acggcctatg aggacgaggt gtccttcctg 240

gacgtgcaca gccgctacca cacgctgcaa gagctgtcgg cgccggagtg cgctgcgtg 300

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<212> DNA
<213> Homo sapiens

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tggatgtgtc gagagggcct gcttctcagc caccgcctcg gacctgcgt ggtccccctg 120
caccgcctgc ctcgaaccct ggacgcccgg attgcccggc tggcccaagta ccgtgcactc 180
ctgcaggggg ccccgatgc gatggagctg cgcgagctga cgccctggc tggggggccc 240
ccaggtccgc gccgtcgggc ggggccccgg cggcggcgcg cgctgcgcg gttggggcgc 300
cgcccttgcg ggctgcgcga gctggaggtg cgctgagcg agctgggcct gggctacgcg 360
tccgacgaga cggctgcttt ccgcgtactgc gcaggcgccct gcgaggctgc cgccgcgc 420
tacgacactcg ggctgcgacg actgcgccag cggcggcgcc tgcggcggga gcgggtgcgc 480
gcgcagccct gctgccgccc gacggcctac gaggacgagg tgtccttcct ggacgcgcac 540
agccgctacc acacggtgca cgagctgtcg gcgcgcgagt gcgcctgcgt gtga 594

B
22
<210> 12
<211> 585
<212> DNA
<213> Mus musculus

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tggatgtgcc aggagggctc gctcttggc caccgcctgg gacccgcgt tgccccccta 120
cgacgcctc cacgcaccct ggacgcccgc atcgcccggc tggcccaagta tcgcgtctg 180
ctccagggcg ccccgacgc ggtggagctt cgagaacttt ctccctggc tgcccgatc 240
ccgggaccgc gccgtcggc gggtccccgg cgtcggcggg cgccggcggg ggctcggcct 300
tgtggctgc gcgagctcga ggtgcgcgtg agcgagctgg gcctggcta cacgtcgat 360
gagaccgtgc tttccgcta ctgcgcaggc gcgtgcgagg cggccatccg catctacgac 420
ctgggccttc ggcgcctgcg ccagcggagg cgctgcgcga gagagcgggc gcggggcgcac 480
ccgtgttgc gccccacggc ctatgaggac gaggtgtcct tcctggacgt gcacagccgc 540
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<210> 13
<211> 348
<212> DNA
<213> Mus musculus

<400> 13
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gcgagcccg ggaagacaga gaaagagagg ccaggggggg aaccccatgg cccggccctg 180

gtcccgacc ctgtcggtg gcctcctccg gcacgggtc cccgggtcgc ctccggtccc 240
 cgcgatccgg atggcgacg cagtggctgg ggccgggccc ggctcggtg gtcggaggag 300
 tcaccactga ccgggtcatc tggagccgt ggcaggccga ggcccagg 348

<210> 14
 <211> 87
 <212> DNA
 <213> Mus musculus

<400> 14
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 gacttcacat aaagtgtggg aactccc 87

<210> 15
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 15
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 1 5 10 15

Val Leu Ser

B
 <210> 16
 <211> 19
 <212> PRT
 <213> Mus musculus

<400> 16
 Met Arg Arg Trp Lys Ala Ala Ala Leu Val Ser Leu Ile Cys Ser Ser
 1 5 10 15

Leu Leu Ser

<210> 17
 <211> 57
 <212> DNA
 <213> Homo sapiens

<400> 17
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<210> 18
 <211> 57
 <212> DNA
 <213> Mus musculus

<400> 18
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<210> 19
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 19
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 1 5 10 15
 Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp Ala Arg Ile
 20 25 30
 Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala Pro Asp Ala
 35 40 45
 Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro Pro Gly Pro
 50 55 60
 Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 65 70 75

<210> 20
 <211> 228
 <212> DNA
 <213> Mus musculus

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 ctcctgcagg gggcccccga tgcgatggag ctgcgcgagc tgacgcctg ggctggcgg 180
 ccccccaggc cgcgcgcgtcg ggccggccccc cggcggcggc ggcgcgcgt 228

B
22

<210> 21
 <211> 228
 <212> DNA
 <213> Mus musculus

<400> 21
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 ctacgacgccc ctccacgcac cctggacgccc cgcacatgcgc gcctggccca gtatcgccgt 120
 ctgctccagg ggcgcgcgcga cgcgggtggag cttcgagaac tttctccctg ggctggccgc 180
 atccccggac cgcgcgcgtcg agcgggtccc cggcgtcggc gggcgcgg 228

<210> 22
 <211> 76
 <212> PRT
 <213> Mus musculus

<400> 22
 Val Trp Met Cys Gln Glu Gly Leu Leu Leu Gly His Arg Leu Gly Pro
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 Ala Leu Ala Pro Leu Arg Arg Pro Pro Arg Thr Leu Asp Ala Arg Ile
 20 25 30
 Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala Pro Asp Ala
 35 40 45
 Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile Pro Gly Pro
 50 55 60
 Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 65 70 75

<210> 23
 <211> 95
 <212> PRT
 <213> Mus musculus

<400> 23
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 1 5 10 15
 Val Leu Ser Ile Trp Met Cys Arg Glu Gly Leu Leu Leu Ser His Arg
 20 25 30 35
 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 85 90 95

<210> 24
 <211> 95
 <212> PRT
 <213> Mus musculus

B
22
 <400> 24
 Met Arg Arg Trp Lys Ala Ala Ala Leu Val Ser Leu Ile Cys Ser Ser
 1 5 10 15
 Leu Leu Ser Val Trp Met Cys Gln Glu Gly Leu Leu Leu Gly His Arg
 20 25 30
 Leu Gly Pro Ala Leu Ala Pro Leu Arg Arg Pro Pro Arg Thr Leu Asp
 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 85 90 95

<210> 25
 <211> 285
 <212> DNA
 <213> Mus musculus

<400> 25
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 tggatgtgtc gagagggcct gcttctcagc caccgcctcg gacctgcgct ggtccccctg 120
 caccgcctgc ctcgaaccct ggacgcccgg attgcccggc tggcccagta ccgtgcactc 180
 ctgcaggggg cccccggatgc gatggagctg cgcgagctga cgccctgggc tggcgcccc 240
 ccaggtccgc gccgtcgggc ggggccccgg cggcggcgcg cgcgt 285

<210> 26
 <211> 285
 <212> DNA
 <213> Mus musculus

<400> 26
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 cgacgcctc cacgcacccct ggacgcccgc atcgcccgcc tggcccagta tcgcgctctg 180
 ctccagggcg ccccccacgc ggtggagctt cgagaacttt ctccctgggc tgcccgcata 240
 ccgggaccgc gccgtcgagc gggtccccgg cgtcggcggg cgcgg 285

<210> 27
 <211> 169
 <212> DNA
 <213> Mus musculus

<400> 27
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 tggatgtgtc gagagggcct gcttctcagc caccgcctcg gacctgcgct ggtccccctg 120
 caccgcctgc ctcgaacccct ggacgcccgg attgcccccc tggcccagt 169

<210> 28
 <211> 425
 <212> DNA
 <213> Mus musculus

B
22
 <400> 28
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 ctgggcggcc cccaggtccg cgccgtcggg cggggccccc ggcgcggcgc ggcgcgtgcgc 120
 ggttgggggc gggccttgc gggctgcgcg agctggaggt ggcgcgtgagc gagctgggcc 180
 tgggctacgc gtccgacgag acgggtctgt tccgctactg cgccaggcgc tgcgaggctg 240
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 agcgggtgcg cgcgca gggccgc tgcgtccgc cgcggcccta cgaggacgag gtgtcccttc 360
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 tgtga 425

<210> 29
 <211> 169
 <212> DNA
 <213> Mus musculus

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 cgacgcctc cacgcacccct ggacgcccgc atcgcccgcc tggcccagta 169

<210> 30
 <211> 419

<212> DNA
 <213> Mus musculus

<400> 30
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 gggctcgcc ttgtgggctg cgcgagctcg aggtgcgcgt gagcgagctg ggcctgggct 180
 acacgtcgga tgagaccgtg ctgtccgt actgcgcagg cgcgtgcag gcccgcattcc 240
 gcatctacga cctgggcctt cggcgccctgc gccagcggag gcgcgtgcgc agagagcggg 300
 cgcggcgca cccgtgttgt cgcccgacgg cctatgagga cgaggtgtcc ttcctggacg 360
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<210> 31
 <211> 94
 <212> PRT
 <213> Homo sapiens

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 Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
 20 25 30
 Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
 35 40 45
 Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg
 50 55 60
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg
 65 70 75 80
 Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys
 85 90

B
 22
 <210> 32
 <211> 94
 <212> PRT
 <213> Mus musculus

<400> 32
 Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
 20 25 30
 Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
 35 40 45
 Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg
 50 55 60
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg
 65 70 75 80
 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys
 85 90

<210> 33
 <211> 8
 <212> PRT
 <213> Mus musculus

<220>
 <221> PRT
 <222> (2)
 <223> Serine or Threonine

<220>
 <221> PRT
 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

<400> 33
 Val Xaa Xaa Leu Gly Leu Gly Tyr
 1 5

<210> 34
 <211> 15
 <212> PRT
 <213> Mus musculus

<220>
 <221> PRT
 <222> (2)
 <223> Threonine or Glutamic Acid

B
22
 <220>
 <221> PRT
 <222> (3)
 <223> Valine or Leucine

<220>
 <221> PRT
 <222> (4)
 <223> Leucine or Isoleucine

<220>
 <221> PRT
 <222> (9)
 <223> Alanine or Serine

<220>
 <221> PRT
 <222> (11)
 <223> Alanine or Serine

<220>
 <221> PRT
 <222> (13)
 <223> Glutamic Acid or Aspartic Acid

<220>
 <221> PRT
 <222> (14)
 <223> Alanine or Serine

<400> 34
 Glu Xaa Xaa Xaa Phe Arg Tyr Cys Xaa Gly Xaa Cys Xaa Xaa Ala
 1 5 10 15

<210> 35
 <211> 15

<212> PRT
 <213> Mus musculus

 <220>
 <221> PRT
 <222> (5)
 <223> Threonine or Valine or Isoleucine

 <220>
 <221> PRT
 <222> (7)
 <223> Tyrosine or Phenylalanine

 <220>
 <221> PRT
 <222> (8)
 <223> Glutamic Acid or Aspartic Acid

 <220>
 <221> PRT
 <222> (10)
 <223> Glutamic Acid or Aspartic Acid

 <220>
 <221> PRT
 <222> (11)
 <223> Valine or Leucine

 <400> 35
 Cys Cys Arg Pro Xaa Ala Xaa Xaa Asp Xaa Xaa Ser Phe Leu Asp
 1 5 10 15

B
22

<210> 36
 <211> 11
 <212> PRT
 <213> Mus musculus

 <220>
 <221> PRT
 <222> (5)
 <223> Alanine or Serine

 <220>
 <221> PRT
 <222> (7)
 <223> Alanine or Serine

 <220>
 <221> PRT
 <222> (9)
 <223> Glutamic Acid or Aspartic Acid

 <220>
 <221> PRT
 <222> (10)
 <223> Serine or Alanine

 <400> 36
 Phe Arg Tyr Cys Xaa Gly Xaa Cys Xaa Xaa Ala
 1 5 10

<210> 37
 <211> 11
 <212> PRT
 <213> Mus musculus

<220>
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 <222> (5)
 <223> Alanine or Serine

<220>
 <221> PRT
 <222> (7)
 <223> Alanine or Serine

<220>
 <221> PRT
 <222> (9)
 <223> Glutamic Acid or Aspartic Acid

<220>
 <221> PRT
 <222> (10)
 <223> Serine or Alanine

<400> 37
 Phe Arg Tyr Cys Xaa Gly Xaa Cys Xaa Xaa Ala
 1 5 10

<210> 38
 <211> 10
 <212> PRT
 <213> Mus musculus

<220>
 <221> PRT
 <222> (5)
 <223> Isoleucine or Threonine or Valine

B
 <220>
 <221> PRT
 <222> (7)
 <223> Tyrosine or Phenylalanine

<220>
 <221> PRT
 <222> (8)
 <223> Glutamic Acid or Aspartic Acid

<220>
 <221> PRT
 <222> (10)
 <223> Glutamic Acid or Aspartic Acid

<400> 38
 Cys Cys Arg Pro Xaa Ala Xaa Xaa Asp Xaa
 1 5 10

<210> 39
 <211> 10
 <212> PRT
 <213> Mus musculus

<220>
 <221> PRT
 <222> (2)
 <223> Tyrosine or Phenylalanine

<220>
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 <222> (3)

<223> Glutamic Acid or Aspartic Acid

<220>
<221> PRT
<222> (5)
<223> Glutamic Acid or Aspartic Acid

<220>
<221> PRT
<222> (6)
<223> Valine or Leucine

<400> 39
Ala Xaa Xaa Asp Xaa Xaa Ser Phe Leu Asp
1 5 10

<210> 40
<211> 8
<212> PRT
<213> Mus musculus

<220>
<221> PRT
<222> (2)
<223> Glutamic acid or Threonine

<220>
<221> PRT
<222> (3)
<223> Leucine or Valine

B
<220>
<221> PRT
<222> (4)
<223> Isoleucine or Leucine

<400> 40
Glu Xaa Xaa Xaa Phe Arg Tyr Cys
1 5

<210> 41
<211> 13
<212> PRT
<213> Mus musculus

<220>
<221> PRT
<222> (2)
<223> Glutamic Acid or Threonine

<220>
<221> PRT
<222> (3)
<223> Leucine or Valine

<220>
<221> PRT
<222> (4)
<223> Isoleucine or Leucine

<220>
<221> PRT
<222> (9)
<223> Serine or Alanine

<220>

<221> PRT
 <222> (11)
 <223> Serine or Alanine

<220>
 <221> PRT
 <222> (13)
 <223> Glutamic Acid or Aspartic Acid

<400> 41
 Glu Xaa Xaa Xaa Phe Arg Tyr Cys Xaa Gly Xaa Cys Xaa
 1 5 10

<210> 42
 <211> 23
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (3)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (4)
 <223> w = a or t

<220>
 <221> misc_feature
 <222> (5)
 <223> s = g or c

<220>
 <221> misc_feature
 <222> (6)
 <223> n = a, t, c or g

B
 <220>
 <221> misc_feature
 <222> (9)
 <223> n = a, t, c or g

<220>
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 <222> (10)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (12)
 <223> n = a, t, c or g

<220>
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 <222> (15)
 <223> n = a, t, c or g

<220>
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 <222> (16)
 <223> y = t or c

<220>
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 <222> (18)
 <223> n = a, t, c or g

<220>
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 <222> (21)
 <223> n = a, t, c or g

 <400> 42
 gtnwsngany tnggnytngg nta

23

<210> 43
 <211> 32
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (3)
 <223> y = t or c

 <220>
 <221> misc_feature
 <222> (4)
 <223> m = a or c

 <220>
 <221> misc_feature
 <222> (6)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (9)
 <223> y = t or c

 B
 22
 <220>
 <221> misc_feature
 <222> (12)
 <223> y = t or c

 <220>
 <221> misc_feature
 <222> (13)
 <223> d = g, a, or t

 <220>
 <221> misc_feature
 <222> (14)
 <223> s = g or c

 <220>
 <221> misc_feature
 <222> (15)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (18)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (19)
 <223> d = g, a, or t

 <220>
 <221> misc_feature
 <222> (20)

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<223> s = g or c

<220>
<221> misc_feature
<222> (21)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (24)
<223> y = t or c

<220>
<221> misc_feature
<222> (27)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (28)
<223> k = g or t

<220>
<221> misc_feature
<222> (30)
<223> n = a, t, c or g

<400> 43
ttymgntayt gydsnggnds ntgygankcn qc

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32

B
22

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<210> 44
<211> 32
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (5)
<223> m = a or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> r = g or a

<220>
<221> misc_feature
<222> (12)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (13)
<223> s = g or c

<220>
<221> misc_feature

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<222> (14)
<223> h = a, c or t

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (19)
<223> s = g or c

<220>
<221> misc_feature
<222> (20)
<223> h = a, c or t

<220>
<221> misc_feature
<222> (21)
<223> r = g or a

<220>
<221> misc_feature
<222> (24)
<223> r = g or a

B
22
<220>
<221> misc_feature
<222> (27)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (29)
<223> k = g or t

<220>
<221> misc_feature
<222> (30)
<223> r = g or a

<400> 44
gcngmmtcrc anshncnsh rcartanckr aa

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32

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<210> 45
<211> 29
<212> DNA
<213> Homo sapiens

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<400> 45
tcrtcntcrw angcnryngg nckrcarca

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29

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<210> 46
<211> 29
<212> DNA
<213> Mus musculus

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<220>
<221> misc_feature

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<222> (3)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (5)
<223> r = a or g

<220>
<221> misc_feature
<222> (6)
<223> r = a or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (10)
<223> s = c or g

<220>
<221> misc_feature
<222> (11)
<223> w = a or t

<220>
<221> misc_feature
<222> (12)
<223> n = a, t, c or g

B
22
<220>
<221> misc_feature
<222> (14)
<223> v = a, c or g

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (18)
<223> r = a or g

<220>
<221> misc_feature
<222> (21)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (24)
<223> r = a or g

<220>
<221> misc_feature
<222> (25)
<223> w = a or t

<220>
<221> misc_feature
<222> (27)
<223> n = a, t, c or g

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<400> 46
tcnarraaans wnavntcrtc ntcrwangc

29

<210> 47
<211> 23
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (3)
<223> r = a or g

<220>
<221> misc_feature
<222> (4)
<223> r = a or g

<220>
<221> misc_feature
<222> (5)
<223> m = a or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (7)
<223> b = t, c or g

B
22
<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (10)
<223> h = a, t, or c

<220>
<221> misc_feature
<222> (12)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (15)
<223> y = t or c

<220>
<221> misc_feature
<222> (16)
<223> m = a or c

<220>
<221> misc_feature
<222> (21)
<223> y = t or c

<400> 47
garrmnbtih tnttymgnta ytg

23

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<210> 48
<211> 38
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (3)
<223> r = a or g

<220>
<221> misc_feature
<222> (4)
<223> r = a or g

<220>
<221> misc_feature
<222> (5)
<223> m = a or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (7)
<223> b = t, c or g

B
22
<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (10)
<223> h = a, t, or c

<220>
<221> misc_feature
<222> (12)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (15)
<223> y = t or c

<220>
<221> misc_feature
<222> (16)
<223> m = a or c

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (21)
<223> y = t or c

<220>
<221> misc_feature
<222> (24)

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<223> y = t or c
 <220>
 <221> misc_feature
 <222> (25)
 <223> d = a, t, or g
 <220>
 <221> misc_feature
 <222> (26)
 <223> s = c or g
 <220>
 <221> misc_feature
 <222> (27)
 <223> n = a, t, c or g
 <220>
 <221> misc_feature
 <222> (30)
 <223> n = a, t, c or g
 <220>
 <221> misc_feature
 <222> (31)
 <223> d = a, t, or g
 B
 <220>
 <221> misc_feature
 <222> (32)
 <223> s = c or g
 <220>
 <221> misc_feature
 <222> (33)
 <223> n = a, t, c or g
 <220>
 <221> misc_feature
 <222> (36)
 <223> h = a, t or c
 <400> 48
 garrmnbtnh tnttymgnta ytgydsngn dsntghga 38

<210> 49
 <211> 93
 <212> PRT
 <213> Mus musculus

<400> 49
 Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 1 5 10 15
 Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30
 Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45
 Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60
 Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
 65 70 75 80
 His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys

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<210> 50
<211> 17
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (3)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (12)
<223> y = t or c

```

B
22

```

<220>
<221> misc_feature
<222> (15)
<223> r = a or g

<400> 50
ccnacngcnt aygarga

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17

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<210> 51
<400> 51
000

<210> 52
<211> 20
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (2)
<223> r = a or g

<220>
<221> misc_feature
<222> (3)
<223> y = t or c

<220>
<221> misc_feature
<222> (6)
<223> y = t or c

<220>
<221> misc_feature
<222> (12)
<223> y = t or c

<220>

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<221> misc_feature
 <222> (15)
 <223> r = a or g

<400> 52
 arytcytgna rngtrtgrta

20

<210> 53
 <211> 28
 <212> DNA
 <213> Rattus norvegicus

<400> 53
 gacgaggtgt ctttcctgga cgtacaca

28

<210> 54
 <211> 34
 <212> DNA
 <213> Mus musculus

<400> 54
 tagcggctgt gtacgtccag gaaggacacc tcgt

34

B
 22

<210> 55
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 55
 cagcgacgac gcgtgcgcaa agagcg

26

<210> 56
 <211> 47
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (3)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (6)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (42)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (45)
 <223> y = t or c

<400> 56
 taygargacg aggtgtcctt cctggacgta cacagccgct aycayac

47

<210> 57
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 57
gcggccatcc gcatctacga cctggg

26

<210> 58
<211> 27
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (2)
<223> r = a or g

<220>
<221> misc_feature
<222> (17)
<223> r = a or g

<220>
<221> misc_feature
<222> (20)
<223> r = a or g

<400> 58
crttaggcgt cgggcgrcar cacgggt

27

<210> 59
<211> 27
<212> DNA
<213> Mus musculus

<400> 59
gcgccgaagg cccaggtcgt agatgcg

27

<210> 60
<211> 29
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)
<223> r = a or g

<400> 60
cgctactgcg caggcgcggtg cgargcggc

29

<210> 61
<211> 27
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)
<223> r = a or g

<400> 61
cgccgacagc tcttgcagcg trtggtt

27

<210> 62
<211> 30

<212> DNA
<213> Homo sapiens

<400> 62
gagctgggcc tgggctacgc gtccgacgag

30

<210> 63
<211> 39
<212> DNA
<213> Mus musculus

<400> 63
gcgacgcgta ccatgaggcg ctggaaggca gcggccctg

39

<210> 64
<211> 30
<212> DNA
<213> Mus musculus

<400> 64
gacggatccg catcacacgc acgacgactc

30

<210> 65
<211> 29
<212> DNA
<213> Mus musculus

<400> 65
gaccatatgc cgggggctcg gccttgtgg

29

<210> 66
<211> 30
<212> DNA
<213> Mus musculus

<400> 66
gacggatccg catcacacgc acgacgactc

30

<210> 67
<211> 26
<212> DNA
<213> Mus musculus

<400> 67
cagcgacgac gcgtgcgcaa agagcg

26

<210> 68
<211> 34
<212> DNA
<213> Mus musculus

<400> 68
tagcggctgt gtacgtccag gaaggacacc tcgt

34

<210> 69
<211> 21
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (15)

<223> y = c or t
 <400> 69
 aaaaatcggg ggtgygtctt a 21
 <210> 70
 <211> 21
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (15)
 <223> y = c or t

<400> 70
 catgcctggc ctacyttgtc a 21
 <210> 71
 <211> 24
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)
 <223> m = a or c

B
 <400> 71
 ctggcgtccc amcaagggtc ttcg 24
 <210> 72
 <211> 23
 <212> DNA
 <213> Homo sapiens

<400> 72
 gccagtggtg ccgtcgaggc ggg 23
 <210> 73
 <211> 24
 <212> DNA
 <213> Mus musculus

<400> 73
 ggcccaggat gaggcgctgg aagg 24
 <210> 74
 <211> 27
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (17)
 <223> w = a or t

<220>
 <221> misc_feature
 <222> (22)
 <223> w = a or t

<400> 74
 ccactccact gcctgawatt cwacccc 27
 <210> 75
 <211> 24
 <212> DNA

<213> Homo sapiens

<400> 75
ccatgtgatt atcgaccatt cggc

24

<210> 76
<211> 134
<212> PRT
<213> Homo sapiens

<400> 76
 Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg
 1 5 10 15
 Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
 20 25 30
 Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
 35 40 45
 Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
 50 55 60
 Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
 65 70 75 80
 Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys
 85 90 95
 Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
 100 105 110
 Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
 115 120 125
 Lys Arg Cys Gly Cys Ile
 130

B
22<210> 77
<211> 134
<212> PRT
<213> Mus musculus

<400> 77
 Ser Pro Asp Lys Gln Ala Ala Leu Pro Arg Arg Glu Arg Asn Arg
 1 5 10 15
 Gln Ala Ala Ala Ala Ser Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
 20 25 30
 Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
 35 40 45
 Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
 50 55 60
 Phe Arg Tyr Cys Ser Gly Ser Cys Glu Ser Ala Glu Thr Met Tyr Asp
 65 70 75 80
 Lys Ile Leu Lys Asn Leu Ser Arg Ser Arg Arg Leu Thr Ser Asp Lys
 85 90 95
 Val Gly Gln Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser
 100 105 110
 Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
 115 120 125

Lys Arg Cys Gly Cys Ile
130

<210> 78
<211> 134
<212> PRT
<213> Mus musculus

<400> 78
Ser Pro Asp Lys Gln Ala Ala Ala Leu Pro Arg Arg Glu Arg Asn Arg
1 5 10 15
Gln Ala Ala Ala Ala Ser Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
20 25 30
Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
35 40 45
Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
50 55 60
Phe Arg Tyr Cys Ser Gly Ser Cys Glu Ala Ala Glu Thr Met Tyr Asp
65 70 75 80
Lys Ile Leu Lys Asn Leu Ser Arg Ser Arg Leu Thr Ser Asp Lys
85 90 95
Val Gly Gln Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser
100 105 110
Phe Leu Asp Asp Ser Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
115 120 125
Lys Arg Cys Gly Cys Ile
130

B
22

<210> 79
<211> 89
<212> PRT
<213> Mus musculus

<400> 79
Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
1 5 10 15
Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
20 25 30
Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
35 40 45
Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
50 55 60
Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro
65 70 75 80
Gln Leu Ser Ala Ala Ala Cys Gly Cys
85

<210> 80
<211> 96
<212> PRT
<213> Mus musculus

<400> 80
 Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30
 Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
 35 40 45
 Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60
 Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His
 65 70 75 80
 Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 85 90 95

<210> 81
 <211> 134
 <212> PRT
 <213> Mus musculus

B
 &
 <400> 81
 Val Arg Ile Pro Gly Gly Leu Pro Thr Pro Gln Phe Leu Leu Ser Lys
 1 5 10 15
 Pro Ser Leu Cys Leu Thr Ile Leu Leu Tyr Leu Ala Leu Gly Asn Asn
 20 25 30
 His Val Arg Leu Pro Arg Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser
 35 40 45
 Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu
 50 55 60
 Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg
 65 70 75 80
 Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg Gly Arg Gly Ala
 85 90 95
 His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe
 100 105 110
 Leu Asp Asp Gln His His Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala
 115 120 125
 Ala Cys Gly Cys Gly
 130

<210> 82
 <211> 89
 <212> PRT
 <213> Rattus norvegicus

<400> 82
 Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys

20

25

30

Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
 35 40 45

Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
 50 55 60

Ala Asp Val Thr Phe Leu Asp Asp His His Trp Gln Gln Leu Pro
 65 70 75 80

Gln Leu Ser Ala Ala Ala Cys Gly Cys
 85

<210> 83

<211> 91

<212> PRT

<213> Rattus norvegicus

<400> 83
 Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
 1 5 10 15

Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys
 20 25 30

Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
 35 40 45

Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
 50 55 60

Ala Asp Val Thr Phe Leu Asp Asp His His Trp Gln Gln Leu Pro
 65 70 75 80

Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 85 90

<210> 84

<211> 267

<212> DNA

<213> Mus musculus

<400> 84
 tggcactgt ggagcctgac cctaccagtg gctgagctgg gcctgggcta tgcctcggag 60
 gagaaggta tcttccgata ctgtgctggc agctgtcccc aagaggcccg tacccagcac 120
 agtctggta tggcccccgt tcgagggcgg ggtcgagccc atggccgacc ctgctgccag 180
 cccaccagct atgctgatgt gacccctt gatgatcagc accattggca gcagctgcct 240
 cagctctcag ctgcagcttg tggctgt 267

<210> 85

<211> 267

<212> DNA

<213> Mus musculus

<400> 85
 tgccggctgt ggagcctgac cctaccagtg gctgagcttg gcctgggcta tgcctcagag 60
 gagaagatta tcttccgata ctgtgctggc agctgtcccc aagaggcccg tacccagcac 120
 agtctggta tggcccgat tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180

ccaccaggct atgctgatgt gacccctt gatgaccacc accattggca gcagctgcct 240
 cagctctcag ccgcagcttg tggctgt 267

<210> 86
 <211> 273
 <212> DNA
 <213> Rattus norvegicus

<400> 86
 tgccggctgt ggaggctgac cctaccagtg gctgagcttg gcctgggcta tgcctcagag 60
 gagaagatta tcttccgata ctgtgctggc agctgtcccc aagaggtccg tacccagcac 120
 agtctggtgc tggcccgctc tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180
 cccaccaggct atgctgatgt gacccctt gatgaccacc accattggca gcagctgcct 240
 cagctctcag ccgcagcttg tggctgtgg 273

<210> 87
 <211> 94
 <212> PRT
 <213> Mus musculus

<400> 87
 Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 1 5 10 15
 Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30
 Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45
 Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60
 Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
 65 70 75 80
 His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys Ile
 85 90

B
 22
<210> 88
<211> 95
<212> PRT
<213> Mus musculus

<400> 88
 Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
 20 25 30
 Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
 35 40 45
 Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg
 50 55 60
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg
 65 70 75 80
 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
 85 90 95

<210> 89
 <211> 91
 <212> PRT
 <213> Mus musculus

<400> 89
 Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
 20 25 30
 Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
 35 40 45
 Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
 50 55 60
 Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro
 65 70 75 80
 Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 85 90

<210> 90
 <211> 22
 <212> DNA
 <213> Rattus norvegicus

<400> 90
 tgccctcagag gagaagatata tc 22

<210> 91
 <211> 7
 <212> PRT
 <213> Rattus norvegicus

<400> 91
 Ala Ser Glu Glu Lys Ile Ile
 1 5

<210> 92
 <211> 16
 <212> PRT
 <213> Rattus norvegicus

<400> 92
 Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys
 1 5 10 15

<210> 93
 <211> 16
 <212> PRT
 <213> Rattus norvegicus

<400> 93
 Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys
 1 5 10 15

<210> 94
 <211> 16
 <212> PRT

<213> Rattus norvegicus

<400> 94
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 1 5 10 15

<210> 95
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<400> 95 23
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<210> 96
 <211> 26
 <212> DNA
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<400> 96 26
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<210> 97
 <211> 336
 <212> DNA
 <213> Rattus norvegicus

<400> 97
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 cccagcacag tctggtgctg gcccgtcttc gagggcaggg tcgagctcat ggcagacctt 120
 gctgccagcc caccagctat gctgatgtga ctttccttga tgaccaccac cattggcagc 180
 agctgcctca gctctcagcc gcagcttgc gctgtggtgg ctgaaggcgg ccagcctgg 240
 ctctcagaat cacaaggcaag aggagccctt taaaaggctc aggtgacggtt attagaaact 300
 tgcataggag aagattaaga agagaaaggg gacctg 336

<210> 98
 <211> 17
 <212> PRT
 <213> Rattus norvegicus

<400> 98
 Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp
 1 5 10 15

Asp

<210> 99
 <211> 17
 <212> PRT
 <213> Rattus norvegicus

<400> 99
 Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Lys Asp
 1 5 10 15

Val

<210> 100

<211> 16
 <212> PRT
 <213> Rattus norvegicus

<400> 100
 Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp
 1 5 10 15

<210> 101
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 101 26
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<210> 102
 <211> 32
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (23)
 <223> s = c or g

<400> 102 32
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<210> 103
 <211> 5
 <212> PRT
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<400> 103
 Ala Leu Ala Gly Ser 1 5

B22

<210> 104

<400> 104
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<210> 105
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 105
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 cttctctcaa agccctcaact ttgccttaca atcctactct accttgcaact aggtaacaac 120
 catgtccgtc ttccaagagc cttggctggt tcatgccgac tgtagggcct gaccctacca 180
 gtggctgagc tgggcctggg ctagcctcg gaggagaagg tcatcttccg atactgtgct 240
 ggcagctgtc cccaagaggc ccgtacccag cacagtctgg tactggcccg gcttcgaggg 300
 cggggtcgag cccatggccg accctgctgc cagccccacca gctatgctga tgtgaccc 360
 cttgatgatc agcaccatttgc agcagcagctg cctcagctct cagctgcagc ttgtggctgt 420
 ggtggctgaa ggaggccagt ctgggtgtctc agaatcacaa gcatgagaca ggctgggctt 480
 tgaaaggctc aggtgacatt actagaaatt tgcataaggta aagataagaa gggaaaggac 540

544

cagg

<210> 106
<211> 73
<212> PRT
<213> Rattus norvegicus

<400> 106
Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln
1 5 10 15
Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg Gly Gln
20 25 30
Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp
35 40 45
Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro Gln Leu
50 55 60
Ser Ala Ala Ala Cys Gly Cys Gly Gly
65 70

<210> 107
<211> 391
<212> DNA
<213> Homo sapiens

<400> 107
tgccggctgt ggagcctgac cctaccagtg gctgagcttg gcctgggcta tgcctcagag 60
gagaagatta tcttccgata ctgtgctggc agctgtcccc aagaggtccg taccgcac 120
agtctggtgc tggcccgatc tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180
ccaccagct atgctgatgt gacccctt gatgaccacc accattggca gcagctgcct 240
cagctctcag ccgcagcttg tggctgtggt ggctgaaggc ggccagcctg gtctctcaga 300
atcacaagca agaggcagcc ttgaaaggc tcaggtgacg ttattagaaa cttgcataagg 360
agaagattaa gaagagaaaag gggacctgat t 391

B
22

<210> 108
<211> 8
<212> PRT
<213> Mus musculus

<220>
<221> SITE
<222> (2)
<223> Serine, Threonine, or Alanine

<220>
<221> SITE
<222> (3)
<223> Glutamic Acid or Aspartic Acid

<400> 108
Val Xaa Xaa Leu Gly Leu Gly Tyr
1 5

<210> 109
<211> 8
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Alanine or Serine

<220>

<221> SITE

<222> (7)

<223> Alanine or Serine

<400> 109

Phe Arg Tyr Cys Xaa Gly Xaa Cys
1 5

<210> 110

<211> 8

<212> PRT

<213> Mus musculus

<220>

<221> SITE

<222> (2)

<223> Aspartic Acid, Glutamic Acid or No Amino Acid

<220>

<221> SITE

<222> (3)

<223> Valine or Leucine

<220>

<221> SITE

<222> (4)

<223> Serine or Threonine

B
22

<220>

<221> SITE

<222> (8)

<223> Valine or Aspartic Acid

<400> 110

Asp Xaa Xaa Xaa Phe Leu Asp Xaa
1 5

<210> 111

<211> 142

<212> PRT

<213> Mus musculus

<400> 111

Glu Gly Pro Gly Arg Pro Ile Arg Val Arg Ile Pro Gly Gly Leu Pro
1 5 10 15

Thr Pro Gln Phe Leu Leu Ser Lys Pro Ser Leu Cys Leu Thr Ile Leu
20 25 30

Leu Tyr Leu Ala Leu Gly Asn Asn His Val Arg Leu Pro Arg Ala Leu
35 40 45

Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
50 55 60

Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
65 70 75 80

Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
 85 90 95
 Arg Leu Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
 100 105 110
 Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln
 115 120 125
 Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 130 135 140

<210> 112
 <211> 5
 <212> PRT
 <213> Rattus norvegicus

<400> 112
 Ala Leu Pro Gly Leu
 1 5

<210> 113
 <211> 12
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (2)
 <223> Threonine, Glutamic Acid or Lysine

<220>
 <221> SITE
 <222> (3)
 <223> Valine, Leucine or Isoleucine

B
 <220>
 <221> SITE
 <222> (4)
 <223> Leucine or Isoleucine

<220>
 <221> SITE
 <222> (9)
 <223> Alanine or Serine

<220>
 <221> SITE
 <222> (11)
 <223> Alanine or Serine

<400> 113
 Glu Xaa Xaa Xaa Phe Arg Tyr Cys Xaa Gly Xaa Cys
 1 5 10

<210> 114
 <211> 16
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (3)
 <223> Arginine or Glutamine

<220>
 <221> SITE
 <222> (5)
 <223> Threonine, Valine or Isoleucine

<220>
 <221> SITE
 <222> (6)
 <223> Alanine or Serine

<220>
 <221> SITE
 <222> (7)
 <223> Tyrosine or Phenylalanine

<220>
 <221> SITE
 <222> (8)
 <223> Glutamic Acid, Aspartic Acid or Alanine

<220>
 <221> SITE
 <222> (10)
 <223> Glutamic Acid, Aspartic Acid or No Amino Acid

<220>
 <221> SITE
 <222> (11)
 <223> Valine or Leucine

<220>
 <221> SITE
 <222> (12)
 <223> Serine or Threonine

B
 <220>
 <221> SITE
 <222> (16)
 <223> Aspartic Acid or Valine

<400> 114
 Cys Cys Xaa Pro Xaa Xaa Xaa Xaa Asp Xaa Xaa Xaa Phe Leu Asp Xaa
 1 5 10 15

<210> 115
 <211> 23
 <212> DNA
 <213> *Mus musculus*

<220>
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 <222> (3)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (4)
 <223> d = a, t or g

<220>
 <221> misc_feature
 <222> (6)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (10)

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<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (16)
<223> y = t or c

<220>
<221> misc_feature
<222> (21)
<223> n = a, t, c or g

<400> 115
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<210> 116
<211> 19
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (3)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (4)
<223> b = t, c or g

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

B 22
<220>
<221> misc_feature
<222> (7)
<223> w = a or t

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (12)
<223> y = t or c

<220>
<221> misc_feature
<222> (13)
<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (18)

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23

<223> n = a, t, c or g
 <400> 116
 ganbtnwcnt tyytngang 19
 <210> 117
 <211> 20
 <212> DNA
 <213> Mus musculus

 <220>
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 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (4)
 <223> b = t, c or g

 <220>
 <221> misc_feature
 <222> (6)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (7)
 <223> w = a or t

 <220>
 <221> misc_feature
 <222> (9)
 <223> n = a, t, c or g

B
 <220>
 <221> misc_feature
 <222> (12)
 <223> y = t or c

 <220>
 <221> misc_feature
 <222> (13)
 <223> y = t or c

 <220>
 <221> misc_feature
 <222> (15)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (18)
 <223> n = a, t, c or g

 <220>
 <221> misc_feature
 <222> (20)
 <223> w = a or t

 <400> 117
 ganbtnwcnt tyytngangw 20

 <210> 118
 <211> 23
 <212> DNA
 <213> Mus musculus

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<220>
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<222> (3)
<223> y = t or c

<220>
<221> misc_feature
<222> (4)
<223> m = a or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> y = t or c

<220>
<221> misc_feature
<222> (12)
<223> y = t or c

<220>
<221> misc_feature
<222> (13)
<223> d = a, t or g

<220>
<221> misc_feature
<222> (14)
<223> s = c or g

B
22
<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (19)
<223> d = a, t or g

<220>
<221> misc_feature
<222> (20)
<223> s = c or g

<220>
<221> misc_feature
<222> (21)
<223> n = a, t, c or g

<400> 118
ttymgntayt gydsnggnds ntg
<210> 119
<211> 20
<212> DNA
<213> Mus musculus

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<220>
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<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (4)
<223> d = a, t or g

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (10)
<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (16)
<223> y = t or c

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

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B
22

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<400> 119
gtndngany tgggnnytngg

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<210> 120
<211> 23
<212> DNA
<213> Mus musculus

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<220>
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<222> (3)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (4)
<223> d = a, t or g

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

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<220>
<221> misc_feature
<222> (10)
<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (16)
<223> y = t or c

<220>
<221> misc_feature
<222> (21)
<223> n = a, t, c or g

<400> 120
gtndngany tgggnnytggg ntt

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23

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<210> 121
<211> 20
<212> DNA
<213> Mus musculus

<220>
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<220>
<221> misc_feature
<222> (3)
<223> n = a, t, c or g

B
22
<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (8)
<223> r = a or g

<220>
<221> misc_feature
<222> (9)
<223> r = a or g

<220>
<221> misc_feature
<222> (12)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (14)
<223> w = a or t

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

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<220>
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<222> (17)
<223> v = a, c or g

<220>
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<222> (18)
<223> n = a, t, c or g

<400> 121
wcntcnarra angwnavntc

<210> 122
<211> 19
<212> DNA
<213> Mus musculus

<220>
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<223> w = a or t

<220>
<221> misc_feature
<222> (3)
<223> n = a, t, c or g

<220>
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<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (8)
<223> r = a or g

B
22
<220>
<221> misc_feature
<222> (9)
<223> r = a or g

<220>
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<222> (12)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (14)
<223> w = a or t

<220>
<221> misc_feature
<222> (15)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (17)
<223> v = a, c or g

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

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20

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<400> 122
wcntcnarra angwnavnt

<210> 123
<211> 23
<212> DNA
<213> Mus musculus

<220>
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<222> (3)
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<220>
<221> misc_feature
<222> (4)
<223> s = c or g

<220>
<221> misc_feature
<222> (5)
<223> h = a, t or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (10)
<223> s = c or g

B
20
<220>
<221> misc_feature
<222> (11)
<223> h = a, t or c

<220>
<221> misc_feature
<222> (12)
<223> r = a or g

<220>
<221> misc_feature
<222> (15)
<223> r = a or g

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

<220>
<221> misc_feature
<222> (20)
<223> k = t or g

<220>
<221> misc_feature
<222> (21)
<223> r = a or g

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<400> 123
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<210> 124
<211> 25
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (3)
<223> n = a, t, c or g

<220>
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<222> (4)
<223> s = c or g

<220>
<221> misc_feature
<222> (5)
<223> h = a, t or c

<220>
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<222> (6)
<223> n = a, t, c or g

<220>
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<222> (9)
<223> n = a, t, c or g

B
22
<220>
<221> misc_feature
<222> (10)
<223> s = c or g

<220>
<221> misc_feature
<222> (11)
<223> h = a, t or c

<220>
<221> misc_feature
<222> (12)
<223> r = a or g

<220>
<221> misc_feature
<222> (15)
<223> r = a or g

<220>
<221> misc_feature
<222> (18)
<223> n = a, t, c or g

<220>
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<222> (20)
<223> k = t or g

<220>
<221> misc_feature
<222> (21)
<223> r = a or g

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<220>
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 <222> (24)
 <223> n = a, t, c or g

 <400> 124
 canshncns hrcartanck raana

25

<210> 125
 <211> 8
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (2)
 <223> Threonine, Serine or Alanine

<220>
 <221> SITE
 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

<400> 125
 Val Xaa Xaa Leu Gly Leu Gly Tyr
 1 5

B
22

<210> 126
 <211> 7
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (1)
 <223> Aspartic Acid or Glutamic Acid

<220>
 <221> SITE
 <222> (2)
 <223> Valine or Leucine

<220>
 <221> SITE
 <222> (3)
 <223> Threonine or Serine

<220>
 <221> SITE
 <222> (6)
 <223> Aspartic Acid or Glutamic Acid

<220>
 <221> SITE
 <222> (7)
 <223> Aspartic Acid or Valine

<400> 126
 Xaa Xaa Xaa Phe Leu Xaa Xaa
 1 5

<210> 127
 <211> 8
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (5)
 <223> Serine or Alanine

<220>
 <221> SITE
 <222> (7)
 <223> Serine or Alanine

<400> 127
 Phe Arg Tyr Cys Xaa Gly Xaa Cys
 1 5

<210> 128
 <211> 7
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (2)
 <223> Threonine, Serine or Alanine

<220>
 <221> SITE
 <222> (3)
 <223> Aspartic Acid or Glutamic Acid

<400> 128
 Val Xaa Xaa Leu Gly Leu Gly
 1 5

B
 <210> 129
 <211> 8
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (2)
 <223> Threonine, Serine or Alanine

<220>
 <221> SITE
 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

<400> 129
 Val Xaa Xaa Leu Gly Leu Gly Phe
 1 5

<210> 130
 <211> 9
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (1)
 <223> Isoleucine or Leucine

<220>
 <221> SITE
 <222> (6)

<223> Serine or Alanine

<220>

<221> SITE

<222> (8)

<223> Serine or Alanine

<400> 130

Xaa Phe Arg Tyr Cys Xaa Gly Xaa Cys
1 5

<210> 131

<211> 559

<212> DNA

<213> Mus musculus

<400> 131
atggctgcag gaagacttcg gatcctgtgt ctgctgctcc tgccttgca cccgagcctc 60
ggctgggtcc ttgatcttca agaggcttct gtggcagata agcttcatt tggaaagatg 120
gcagagacta gagggacctg gacgccccat caggtaaga attcctgggg gcctccgac 180
tcccaattc cttctctcaa agccctcaact ttgccttaca atcctactct accttgcact 240
aggttaacaac catgtccgtc ttccaagagc cttggctggt tcatgccac tgtggagcct 300
gaccctacca gtggctgagc tggcctggg atatgcctcg gaggagaagg tcatcttccg 360
atactgtgct ggcagctgtc cccaaagaggc ccgtacccag cacagtctgg tactggcccg 420
gcttcgaggg cggggtcgag cccatggccg accctgctgc cagcccacca gctatgctga 480
tgtgaccttc cttgatgatc agcaccattg gcagctgctg cctcagctct cagctgcagc 540
ttgtggctgt ggtggctga 559

<210> 132

<211> 133

<212> PRT

<213> Homo sapiens

<400> 132:
Pro Asp Ala Arg Gly Val Pro Val Ala Asp Gly Glu Phe Ser Ser Glu
1 5 10 15

Gln Val Ala Lys Ala Gly Gly Thr Trp Leu Gly Thr His Arg Pro Leu
20 25 30

Ala Arg Leu Arg Arg Ala Leu Ser Gly Pro Cys Gln Leu Trp Ser Leu
35 40 45

Thr Leu Ser Val Ala Glu Leu Gly Tyr Ala Ser Glu Glu Lys
50 55 60

Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly Ala Arg Thr
65 70 75 80

Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly Arg Ala His
85 90 95

Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val Ala Phe Leu
100 105 110

Asp Asp Arg His Arg Trp Gln Arg Leu Pro Gln Leu Ser Ala Ala Ala
115 120 125

Cys Gly Cys Gly Gly
130

<210> 133

<400> 133
000

<210> 134
<211> 93
<212> PRT
<213> Rattus norvegicus

<400> 134
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15
Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30
Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45
Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60
Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
65 70 75 80
His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
85 90

B
22
<210> 135
<211> 23
<212> PRT
<213> Mus musculus

<400> 135
Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu
1 5 10 15

His Pro Ser Leu Gly Trp Val
20

<210> 136
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 136
Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu
1 5 10 15

His Leu Gly Leu Gly Trp Val
20

<210> 137
<211> 23
<212> DNA
<213> Rattus norvegicus

<400> 137
aatccccagg acaggcaggg aat

<210> 138

<211> 35

<212> DNA

<213> Rattus norvegicus

<400> 138

cggtacccag atcttcagcc accacagcca caagc

35

<210> 139

<211> 76

<212> DNA

<213> Mus musculus

<400> 139

ggactatcat atggcccacc accaccacca ccaccacac gacgacgacg acaaggcctt

60

ggctggttca tgccga

76

<210> 140

<211> 32

<212> DNA

<213> Mus musculus

<400> 140

tgctgtcacc atggctgcag gaagacttcg ga

32

<210> 141

<211> 96

<212> PRT

<213> Mus musculus

<400> 141

Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
1 5 10 15Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
20 25 30Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
35 40 45Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
50 55 60Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser
65 70 75 80Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
85 90 95

<210> 142

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<221>

<222>

<223> Plasmid vector sequence

<400> 142

taatacgtact cactataggg gaa

23

<210> 143

<211> 49

<212> DNA

<213> Mus musculus

<400> 143
 tcgtttcgta aagcagtcgg acggcagcag ggtcgccat gggctcgac 49

<210> 144
 <211> 29
 <212> DNA
 <213> Homo sapiens

<400> 144
 tgctgccgtc cgactgctta cgaagacga 29

<210> 145
 <211> 25
 <212> DNA
 <213> Artificial sequence

<220>
 <221>
 <222>
 <223> Plasmid vector sequence

<400> 145
 gttatgctag ttattgctca gcgggt 25

<210> 146
 <211> 100
 <212> PRT
 <213> Mus musculus

<400> 146
 Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser
 1 5 10 15

Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
 20 25 30

B
 22
 Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
 35 40 45

Arg Arg Leu Arg Gln Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
 50 55 60

His Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp
 65 70 75 80

Asp Gln His His Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys
 85 90 95

Gly Cys Gly Gly
 100

<210> 147
 <211> 50
 <212> DNA
 <213> Mus musculus

<400> 147
 cacatcagca tagctggtgg gctggcagca cgggtgagca cgagcacgtt 50

<210> 148
 <211> 25
 <212> DNA
 <213> Mus musculus

<400> 148
 tgctgccagc ccaccagcta tgctg 25

<210> 149

<211> 23
 <212> DNA
 <213> Mus musculus

<400> 149
 cctcggagga gaaggtcatc ttc

23

<210> 150
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 150
 Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp
 1 5 10 15
 Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly
 20 25 30
 Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu
 35 40 45
 Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys
 50 55 60
 Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg
 65 70 75 80
 Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys
 85 90 95

Cys Ser

<210> 151
 <211> 98
 <212> PRT
 <213> Homo sapiens

B
22
 <400> 151
 Cys Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp
 1 5 10 15
 Lys Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly
 20 25 30
 Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu
 35 40 45
 Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys
 50 55 60
 Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys
 65 70 75 80
 Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys
 85 90 95

Cys Ser

<210> 152
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 152
 Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp

1	5	10	15												
Lys	Trp	Val	His	Glu	Pro	Lys	Gly	Tyr	Tyr	Ala	Asn	Phe	Cys	Ser	Gly
20						25							30		
Pro	Cys	Pro	Tyr	Leu	Arg	Ser	Ala	Asp	Thr	Thr	His	Ser	Thr	Val	Leu
35						40							45		
Gly	Leu	Tyr	Asn	Thr	Leu	Asn	Pro	Glu	Ala	Ser	Ala	Ser	Pro	Cys	Cys
50						55						60			
Val	Pro	Gln	Asp	Leu	Glu	Pro	Leu	Thr	Ile	Leu	Tyr	Tyr	Val	Gly	Arg
65						70						75		80	
Thr	Pro	Lys	Val	Glu	Gln	Leu	Ser	Asn	Met	Val	Val	Lys	Ser	Cys	Lys
									85			90		95	

Cys Ser

<210> 153
 <211> 106
 <212> PRT
 <213> Homo sapiens

1	5	10	15												
Cys	Cys	Lys	Lys	Gln	Phe	Phe	Val	Ser	Phe	Lys	Asp	Ile	Gly	Trp	Asn
Asp	Trp	Ile	Ile	Ala	Pro	Ser	Gly	Tyr	His	Ala	Asn	Tyr	Cys	Glu	Gly
20													30		
Glu	Cys	Pro	Ser	His	Ile	Ala	Gly	Thr	Ser	Gly	Ser	Ser	Leu	Ser	Phe
35												45			
His	Ser	Thr	Val	Ile	Asn	His	Tyr	Arg	Met	Arg	Gly	His	Ser	Pro	Phe
50											60				
Ala	Asn	Leu	Lys	Ser	Cys	Cys	Val	Pro	Thr	Lys	Leu	Arg	Pro	Met	Ser
65													80		
Met	Leu	Tyr	Tyr	Asp	Asp	Gly	Gln	Asn	Ile	Ile	Lys	Lys	Asp	Ile	Gln
													95		
Asn	Met	Ile	Val	Glu	Glu	Cys	Gly	Cys	Ser						
									105						

B22
 <210> 154
 <211> 105
 <212> PRT
 <213> Homo sapiens

1	5	10	15												
Cys	Cys	Arg	Gln	Gln	Phe	Phe	Ile	Asp	Phe	Arg	Leu	Ile	Gly	Trp	Asn
Asp	Trp	Ile	Ile	Ala	Pro	Thr	Gly	Tyr	Tyr	Gly	Asn	Tyr	Cys	Glu	Gly
20													30		
Ser	Cys	Pro	Ala	Tyr	Leu	Ala	Gly	Val	Pro	Gly	Ser	Ala	Ser	Ser	Phe
35												45			
His	Thr	Ala	Val	Val	Asn	Gln	Tyr	Arg	Met	Arg	Gly	Leu	Asn	Pro	Gly
50											60				
Thr	Val	Asn	Ser	Cys	Cys	Ile	Pro	Thr	Lys	Leu	Ser	Thr	Met	Ser	Met
65													80		

Leu Tyr Phe Asp Asp Glu Tyr Asn Ile Val Lys Arg Asp Val Pro Asn
 85 90 95

Met Ile Val Glu Glu Cys Gly Cys Ala
 100 105

<210> 155

<211> 101

<212> PRT

<213> Mus musculus

<400> 155
 Cys Arg Arg Val Lys Phe Gln Val Asp Phe Asn Leu Ile Gly Trp Gly
 1 5 10 15

Ser Trp Ile Ile Tyr Pro Lys Gln Tyr Asn Ala Tyr Arg Cys Glu Gly
 20 25 30

Glu Cys Pro Asn Pro Val Gly Glu Glu Phe His Pro Thr Asn His Ala
 35 40 45

Tyr Ile Gln Ser Leu Leu Lys Arg Tyr Gln Pro His Arg Val Pro Ser
 50 55 60

Thr Cys Cys Ala Pro Val Lys Thr Lys Pro Leu Ser Met Leu Tyr Val
 65 70 75 80

Asp Asn Gly Arg Val Leu Leu Glu His His Lys Asp Met Ile Val Glu
 85 90 95

Glu Cys Gly Cys Leu
 100

<210> 156

<211> 101

<212> PRT

<213> Homo sapiens

<400> 156
 Cys Lys Arg His Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn
 1 5 10 15

Asp Trp Ile Val Ala Pro Pro Gly Tyr His Ala Phe Tyr Cys His Gly
 20 25 30

Glu Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Lys Ile Pro Lys Ala
 50 55 60

Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp
 65 70 75 80

Glu Asn Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met Val Val Glu
 85 90 95

Gly Cys Gly Cys Arg
 100

<210> 157

<211> 101

<212> PRT

<213> Homo sapiens

<400> 157

Cys Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn

1	5	10	15
Asp Trp Ile Val Ala Pro Pro Gly Tyr Gln Ala Phe Tyr Cys His Gly			
20	25	30	
Asp Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala			
35	40	45	
Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Ser Ile Pro Lys Ala			
50	55	60	
Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp			
65	70	75	80
Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu Met Val Val Glu			
85	90	95	
Gly Cys Gly Cys Arg			
100			

<210> 158
 <211> 102
 <212> PRT
 <213> Drosophila melanogaster

<400> 158

Cys Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asp			
1	5	10	15
Asp Trp Ile Val Ala Pro Leu Gly Tyr Asp Ala Tyr Tyr Cys His Gly			
20	25	30	
Lys Cys Pro Phe Pro Leu Ala Asp His Phe Asn Ser Thr Asn His Ala			
35	40	45	
Val Val Gln Thr Leu Val Asn Asn Met Asn Pro Gly Lys Val Pro Lys			
50	55	60	
Ala Cys Cys Val Pro Thr Gln Leu Asp Ser Val Ala Met Leu Tyr Leu			
65	70	75	80
Asn Asp Gln Ser Thr Val Val Leu Lys Asn Tyr Gln Glu Met Thr Val			
85	90	95	
Val Gly Cys Gly Cys Arg			
100			

<210> 159
 <211> 102
 <212> PRT
 <213> Homo sapiens

Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln			
1	5	10	15
Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Phe Tyr Cys Asp Gly			
20	25	30	
Glu Cys Ser Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala			
35	40	45	
Ile Val Gln Thr Leu Val His Leu Met Phe Pro Asp His Val Pro Lys			
50	55	60	
Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe			
65	70	75	80

Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ser Cys Gly Cys His
 100

<210> 160

<211> 102

<212> PRT

<213> Homo sapiens

<400> 160

Cys Arg Lys His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Gln
 1 5 10 15

Asp Trp Ile Ile Ala Pro Lys Gly Tyr Ala Ala Asn Tyr Cys Asp Gly
 20 25 30

Glu Cys Ser Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val His Leu Met Asn Pro Glu Tyr Val Pro Lys
 50 55 60

Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe
 65 70 75 80

Asp Asp Asn Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ala Cys Gly Cys His
 100

<210> 161

<211> 102

<212> PRT

<213> Homo sapiens

B22
 <400> 161

Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln
 1 5 10 15

Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Tyr Tyr Cys Glu Gly
 20 25 30

Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn Ala Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val His Phe Ile Asn Pro Glu Thr Val Pro Lys
 50 55 60

Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile Ser Val Leu Tyr Phe
 65 70 75 80

Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ala Cys Gly Cys His
 100

<210> 162

<211> 102

<212> PRT

<213> Homo sapiens

<400> 162

Cys Arg Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu

1	5	10	15
Asp Trp Val Ile Ala Pro Gln Gly Tyr Ser Ala Tyr Tyr Cys Glu Gly			
20	25	30	
Glu Cys Ser Phe Pro Leu Asp Ser Cys Met Asn Ala Thr Asn His Ala			
35	40	45	
Ile Leu Gln Ser Leu Val His Leu Met Lys Pro Asn Ala Val Pro Lys			
50	55	60	
Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr			
65	70	75	80
Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn Met Val Val			
85	90	95	
Lys Ala Cys Gly Cys His			
100			

<210> 163

<211> 102

<212> PRT

<213> Drosophila

1	5	10	15
Cys Gln Met Gln Thr Leu Tyr Ile Asp Phe Lys Asp Leu Gly Trp His			

20	25	30	
Asp Trp Ile Ile Ala Pro Glu Gly Tyr Gly Ala Phe Tyr Cys Ser Gly			

35	40	45	
Glu Cys Asn Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala			

50	55	60	
Ile Val Gln Thr Leu Val His Leu Leu Glu Pro Lys Lys Val Pro Lys			

65	70	75	80
Pro Cys Cys Ala Pro Thr Arg Leu Gly Ala Leu Pro Val Leu Tyr His			

85	90	95	
Leu Asn Asp Glu Asn Val Asn Leu Lys Lys Tyr Arg Asn Met Ile Val			

100			
Lys Ser Cys Gly Cys His			

<210> 164

<211> 103

<212> PRT

<213> Homo sapiens

1	5	10	15
Cys Ala Arg Arg Tyr Leu Lys Val Asp Phe Ala Asp Ile Gly Trp Ser			

20	25	30	
Glu Trp Ile Ile Ser Pro Lys Ser Phe Asp Ala Tyr Tyr Cys Ser Gly			

35	40	45	
Ala Cys Gln Phe Pro Met Pro Lys Ser Leu Lys Pro Ser Asn His Ala			

50	55	60	
Thr Ile Gln Ser Ile Val Arg Ala Val Gly Val Val Pro Gly Ile Pro			

65	70	75	80
Glu Pro Cys Cys Val Pro Glu Lys Met Ser Ser Leu Ser Ile Leu Phe			

Phe Asp Glu Asn Lys Asn Val Val Leu Lys Val Tyr Pro Asn Met Thr
 85 90 95

Val Glu Ser Cys Ala Cys Arg
 100

<210> 165
 <211> 102
 <212> PRT
 <213> Xenopus laevis

<400> 165
 Cys Lys Lys Arg His Leu Tyr Val Glu Phe Lys Asp Val Gly Trp Gln
 1 5 10 15
 Asn Trp Val Ile Ala Pro Gln Gly Tyr Met Ala Asn Tyr Cys Tyr Gly
 20 25 30
 Glu Cys Pro Tyr Pro Leu Thr Glu Ile Leu Asn Gly Ser Asn His Ala
 35 40 45
 Ile Leu Gln Thr Leu Val His Ser Ile Glu Pro Glu Asp Ile Pro Leu
 50 55 60
 Pro Cys Cys Val Pro Thr Lys Met Ser Pro Ile Ser Met Leu Phe Tyr
 65 70 75 80
 Asp Asn Asn Asp Asn Val Val Leu Arg His Tyr Glu Asn Met Ala Val
 85 90 95

Asp Glu Cys Gly Cys Arg
 100

<210> 166
 <211> 106
 <212> PRT
 <213> Homo sapiens

B22
 <400> 166
 Cys Arg Ala Arg Arg Leu Tyr Val Ser Phe Arg Glu Val Gly Trp His
 1 5 10 15
 Arg Trp Val Ile Ala Pro Arg Gly Phe Leu Ala Asn Tyr Cys Gln Gly
 20 25 30
 Gln Cys Ala Leu Pro Val Ala Leu Ser Gly Ser Gly Gly Pro Pro Ala
 35 40 45
 Leu Asn His Ala Val Leu Arg Ala Leu Met His Ala Ala Ala Pro Gly
 50 55 60
 Ala Ala Asp Leu Pro Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser
 65 70 75 80
 Val Leu Phe Phe Asp Asn Ser Asp Asn Val Val Leu Arg Gln Tyr Glu
 85 90 95
 Asp Met Val Val Asp Glu Cys Gly Cys Arg
 100 105

<210> 167
 <211> 101
 <212> PRT
 <213> Mus musculus

<400> 167
 Cys His Arg His Gln Leu Phe Ile Asn Phe Gln Asp Leu Gly Trp His
 1 5 10 15

Lys Trp Val Ile Ala Pro Lys Gly Phe Met Ala Asn Tyr Cys His Gly
 20 25 30

Glu Cys Pro Phe Ser Met Thr Thr Tyr Leu Asn Ser Ser Asn Tyr Ala
 35 40 45

Phe Met Gln Ala Leu Met His Met Ala Asp Pro Lys Val Pro Lys Ala
 50 55 60

Val Cys Val Pro Thr Lys Leu Ser Pro Ile Ser Met Leu Tyr Gln Asp
 65 70 75 80

Ser Asp Lys Asn Val Ile Leu Arg His Tyr Glu Asp Met Val Val Asp
 85 90 95

Glu Cys Gly Cys Gly
 100

<210> 168

<211> 103

<212> PRT

<213> Gallus gallus

<400> 168
 Cys Arg Arg Thr Ser Leu His Val Asn Phe Lys Glu Ile Gly Trp Asp
 1 5 10 15

Ser Trp Ile Ile Ala Pro Lys Asp Tyr Glu Ala Phe Glu Cys Lys Gly
 20 25 30

Gly Cys Phe Phe Pro Leu Thr Asp Asn Val Thr Pro Thr Lys His Ala
 35 40 45

Ile Val Gln Thr Leu Val His Leu Gln Asn Pro Lys Lys Ala Ser Lys
 50 55 60

Ala Cys Cys Val Pro Thr Lys Leu Asp Ala Ile Ser Ile Leu Tyr Lys
 65 70 75 80

Asp Asp Ala Gly Val Pro Thr Leu Ile Tyr Asn Tyr Glu Gly Met Lys
 85 90 95

Val Ala Glu Cys Gly Cys Arg
 100

<210> 169

<211> 105

<212> PRT

<213> Homo sapiens

<400> 169
 Cys His Arg Val Ala Leu Asn Ile Ser Phe Gln Glu Leu Gly Trp Glu
 1 5 10 15

Arg Trp Ile Val Tyr Pro Pro Ser Phe Ile Phe His Tyr Cys His Gly
 20 25 30

Gly Cys Gly Leu His Ile Pro Pro Asn Leu Ser Leu Pro Val Pro Gly
 35 40 45

Ala Pro Pro Thr Pro Ala Gln Pro Tyr Ser Leu Leu Pro Gly Ala Gln
 50 55 60

Pro Cys Cys Ala Ala Leu Pro Gly Thr Met Arg Pro Leu His Val Arg
 65 70 75 80

Thr Thr Ser Asp Gly Gly Tyr Ser Phe Lys Tyr Glu Thr Val Pro Asn

85

90

95

Leu Leu Thr Gln His Cys Ala Cys Ile
100 105

<210> 170

<211> 99

<212> PRT

<213> Homo sapiens

<400> 170
Cys Ala Leu Arg Glu Leu Ser Val Asp Leu Arg Ala Glu Arg Ser Val
1 5 10 15

Leu Ile Pro Glu Thr Tyr Gln Ala Asn Asn Cys Gln Gly Ala Cys Gly
20 25 30

Trp Pro Gln Ser Asp Arg Asn Pro Arg Tyr Gly Asn His Val Val Leu
35 40 45

Leu Leu Lys Met Gln Ala Arg Gly Ala Thr Leu Ala Arg Pro Pro Cys
50 55 60

Cys Val Pro Thr Ala Tyr Thr Gly Lys Leu Leu Ile Ser Leu Ser Glu
65 70 75 80

Glu Arg Ile Ser Ala His His Val Pro Asn Met Val Ala Thr Glu Cys
85 90 95

Gly Cys Arg

<210> 171

<211> 102

<212> PRT

<213> Homo sapiens

B22
<400> 171
Cys Glu Leu His Asp Phe Ser Leu Ser Phe Ser Gln Leu Lys Trp Asp
1 5 10 15

Asn Trp Ile Val Ala Pro His Ser Tyr Asn Pro Ser Tyr Cys Lys Gly
20 25 30

Asp Cys Pro Ser Ala Val Ser His Arg Tyr Gly Ser Pro Val His Thr
35 40 45

Met Val Gln Asn Met Ile Tyr Glu Lys Leu Asp Pro Ser Val Pro Ser
50 55 60

Pro Ser Cys Val Pro Gly Lys Tyr Ser Pro Leu Ser Val Leu Thr Ile
65 70 75 80

Glu Pro Asp Gly Ser Ile Ala Tyr Lys Glu Tyr Glu Asp Met Met Ala
85 90 95

Thr Ser Cys Thr Cys Arg
100

<210> 172

<211> 94

<212> PRT

<213> Homo sapiens

<400> 172
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15

Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30

Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45

Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60

Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
 65 70 75 80

His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys Ile
 85 90

<210> 173

<211> 95

<212> PRT

<213> Homo sapiens

<400> 173
 Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly
 1 5 10 15

Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
 20 25 30

Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
 35 40 45

Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg
 50 55 60

Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg
 65 70 75 80

Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
 85 90 95

B
 <210> 174

<211> 37

<212> PRT

<213> Mus musculus

<400> 174
 Leu Asp Leu Gln Glu Ala Ser Val Ala Asp Lys Leu Ser Phe Gly Lys
 1 5 10 15

Met Ala Glu Thr Arg Gly Thr Trp Thr Pro His Gln Gly Asn Asn His
 20 25 30

Val Arg Leu Pro Arg
 35

<210> 175

<211> 37

<212> PRT

<213> Rattus norvegicus

<400> 175
 Leu Asp Leu Gln Glu Ala Pro Ala Ala Asp Glu Leu Ser Ser Gly Lys
 1 5 10 15

Met Ala Glu Thr Gly Arg Thr Trp Lys Pro His Gln Gly Asn Asn Asn
 20 25 30

Val Arg Leu Pro Arg
 35

<210> 176
 <211> 93
 <212> PRT
 <213> Mus musculus

<400> 176
 Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 1 5 10 15
 Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30
 Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45
 Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60
 Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
 65 70 75 80
 His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
 85 90

<210> 177
 <211> 723
 <212> DNA
 <213> Mus musculus

B22
 <400> 153
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 ggctgggtcc ttgatcttca agaggcttct gtggcagata agctctcatt tgggaagatg 120
 gcagagactc gagggacactg gacgccccat cagggtaaga attcctgggg gcctcccgac 180
 tcccccaattc cttctctcaa agccctcatac ttgccttaca atcctactct accttgcact 240
 aggttaacaac catgtccgtc ttccaagacg cttggcttgt tcatgccgac tgtggagcct 300
 gaccctacca gtggctgagc tgggcctggg ctatgcctcg gaggagaagg tcatcttccg 360
 atactgtgct ggcagctgtc cccaagaggc ccgtaccag cacagtctgg tactggcccg 420
 gcttcgaggg cgggggtcgag cccatggccg accctgctgc cagcccacca gctatgctga 480
 tgtgaccttc cttgatgatc agcaccattt gcagcagctg cctcagctct cagctgcagc 540
 ttgtggctgt ggtggctgaa ggaggccagt ctgggtctc agaatcaca gcatgagaca 600
 ggctgggctt tgaaaggctc aggtgacatt actagaaatt tgcataggta aagataagaa 660
 gggaaaggac caggggtttt ttgtttctt ctttgcttgc ttgttagttt tttttttttt 720
 723
 ttt

<210> 178
 <211> 723
 <212> DNA
 <213> Mus musculus

<400> 178
 aaaaaaaaaaaa aaaaaaactaa caagcaagca aagaaagaaa caaaaaaccc ctggtccttt 60
 cccttcttat ctttacctat gcaaatttct agtaatgtca cctgagcctt tcaaagccca 120
 gcctgtctca tgcttgtat tctgagacac cagactggcc tccttcagcc accacagcc 180

caagctgcag ctgagagctg aggcagctgc tgccaatggc gctgatcatc aaggaaggc 240
 acatcagcat agctgggtgg ctggcagcag ggtcgccat gggctcgacc ccgcctcg 300
 agccgggcca gtaccagact gtgctggta cggccctttt gggacagct gccagcacag 360
 tatcggaga tgaccttctc ctccgaggca tagcccaggc ccagctcagc cactggtagg 420
 gtcaggctcc acagtcggca tgaaccagcc aaggcttttgaagacggac atggttgtta 480
 cctagtgcaa ggttagatg gattttaagg caaatggagg gctttgagag aaggaattgg 540
 ggagtccggaa ggccccccagg aatttttacc ctgatggggc gtccagggtcc ctctagtctc 600
 tgccatcttc ccaaatttggaa gcttatctgc cacagaagcc tctttaagat caaggacc 660
 gccgaggctc gggtgcaagg acaggagcag cagacacagg atccgaagtc ttccctgcagc 720
 cat 723

<210> 179
 <211> 471
 <212> DNA
 <213> Mus musculus

<400> 179
 atggctgcag gaagacttcg gatccctgtgt ctgctgctcc tgccttgca cccgagcc 60
 ggctgggtcc ttgatcttca agaggcttctt gtggcagata agctctcatt tgggaagatg 120
 gcaagagacta gagggacactg gacgccccat caggtaaca accatgtccg tcttccaaga 180
 gccttggctg gttcatgccg actgtggagc ctgaccctac cagttggctga gctggggctg 240
 ggctatgcctt cggaggagaa ggtcatcttc cgatactgtg ctggcagctg tccccaaagag 300
 gcccgtaccc agcacagtctt ggtactggcc cggcttcgag ggcggggctg agcccatggc 360
 cgaccctgtctt gccagccac cagctatgtt gatgtgaccc ttcttgcatga tcagcaccat 420
 tggcagcagc tgcctcagct ctcaagtcgca gcttggctgctt gttggctg a 471

<210> 180
 <211> 106
 <212> DNA
 <213> Mus musculus

<400> 180
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 atcatcaagg aaggtcacat cagcatagct ggtgggtgg cagcagggtc ggccatgggc 120
 tcgaccccccgc cctcgaagcc gggccagttac cagactgtgc tgggtacggg cctcttgggg 180
 acagctgcacca gcacagtatac ggaagatgac cttctctcc gaggcatagc ccaggccac 240
 ctcagccact ggtagggtca ggctccacag tcggcatgaa ccagccaagg ctcttggaaag 300
 acggacatgg ttgttaccct gatggggcgt ccaggtccctt ctatctctg ccattttccc 360
 aaatgagagc ttatctgcacca cagaaggctc ttgaagatca aggacccagc cgaggctcg 420
 gtgcaaggac aggagcagca gacacaggat ccgaagtctt cctgcagcca t 471

<210> 181
 <211> 180
 <212> DNA

<213> Mus musculus

<400> 181
 atggctgcag gaagacttcg gatcctgtgt ctgctgctcc tgtccttgca cccgagcctc 60
 ggctgggtcc ttgatcttca agaggcttct gtggcagata agctctcatt tggaagatg 120
 gcagagacta gagggacactg gacgccccat caggtaaca accatgtccg tcttccaaga 180

<210> 182

<211> 180

<212> DNA

<213> Mus musculus

<400> 182
 tcttggaaaga cggacatggt tgtaaccctg atggggcgctc caggtccctc tagtctctgc 60
 catcttccca aatgagagct tatctgccac agaagcctct tgaagatcaa ggacccagcc 120
 gagggctcggg tgcaaggaca ggagcagcag acacaggatc cgaagtcttc ctgcagccat 180

<210> 183

<211> 291

<212> DNA

<213> Mus musculus

<400> 183
 gccttggctg gttcatgccg actgtggagc ctgaccctac cagtggtctga gctgggcctg 60
 ggctatgcct cggaggagaa ggtcatcttc cgatactgtg ctggcagctg tccccaagag 120
 gcccgtaccc agcacagtct ggtactggcc cggcttcgag ggcggggctcg agcccatggc 180
 cgaccctgtct gccagccac cagctatgtct gatgtgaccc ttcttgatga tcagcaccat 240
 tggcagcagc tgcctcagct ctcagctgca gcttggctgtggctg a 291

B22
 <210> 184

<211> 291

<212> DNA

<213> Mus musculus

<400> 184
 tcagccacca cagccacaag ctgcagctga gagctgagggc agctgctgcc aatgggtctg 60
 atcatcaagg aaggtcacat cagcatagct ggtggctgg cagcagggtc ggccatgggc 120
 tcgaccccccgc cctcgaagcc gggccagtac cagactgtgc tgggtacggg cctcttgggg 180
 acagctgcca gcacagtatc ggaagatgac cttctccctcc gaggcatagc ccaggccccag 240
 ctcagccact ggtagggtca ggctccacag tcggcatgaa ccagccaaagg c 291

<210> 185

<211> 156

<212> PRT

<213> Mus musculus

<400> 185
 Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu 15
 1 5 10 15
 His Pro Ser Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Ser Val Ala
 20 25 30
 Asp Lys Leu Ser Phe Gly Lys Met Ala Glu Thr Arg Gly Thr Trp Thr
 35 40 45
 35 40 45

Pro His Gln Gly Asn Asn His Val Arg Leu Pro Arg Ala Leu Ala Gly
 50 55 60

Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu
 65 70 75 80

Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser
 85 90 95

Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu
 100 105 110

Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser
 115 120 125

Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu
 130 135 140

Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 145 150 155

<210> 186

<211> 60

<212> PRT

<213> Mus musculus

<400> 186
 Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu
 1 5 10 15

His Pro Ser Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Ser Val Ala
 20 25 30

Asp Lys Leu Ser Phe Gly Lys Met Ala Glu Thr Arg Gly Thr Trp Thr
 35 40 45

Pro His Gln Gly Asn Asn His Val Arg Leu Pro Arg
 50 55 60

B
22
 <210> 187

<211> 96

<212> PRT

<213> Mus musculus

<400> 187
 Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15

Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30

Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
 35 40 45

Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60

Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His
 65 70 75 80

Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 85 90 95

<210> 188

<211> 559

<212> DNA

<213> Rattus norvegicus

<400> 188
 atggctgcag gaagacttcg gatcttgttt ctgctgctcc tgtccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctcct gcggcagatg agctctcatc tggaaaaatg 120
 gcagagactg gaaggacactg gaagccccat cagggtaaga attcttgggg gcctccta 180
 tctacagttc ttcctctcaa agccctcaact ttgcctcaca atccttattct accttgcact 240
 aggttaacaac aatgtccgcc ttccaagagc cttacctggt ttgtccggc tgtggagcct 300
 gaccctacca gtggctgagc ttggcctggg ctatgcctca gaggagaaga ttatcttccg 360
 atactgtgct ggcagctgct cccaagaggt ccgtacccag cacagtctgg tgctggcccg 420
 tcttcgaggg cagggtcgag ctcatggcag accttgcgtc cagccacca gctatgctga 480
 tgtgaccttc cttgatgacc accaccattg gcagcagctg cctcagctct cagccgcagc 540
 ttgtggctgt ggtggctga 559

<210> 189

<211> 559

<212> DNA

<213> Rattus norvegicus

<400> 189
 tcagccacca cagccacaag ctgcggctga gagctgaggc agctgctgcc aatggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtggctgg cagcaaggc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctcttgggg 180
 acagctgcca gcacagtatc ggaagataat cttctcctct gaggcatagc ccaggccaag 240
 ctcagccact ggtagggtca ggctccacag ccggcacaaa ccaggtaagg ctcttggaaag 300
 gccggacattt ttgttaccta gtgcaaggta gaataggatt gtgaggcaaa gtgaggggctt 360
 tgagaggaag aactgttagag ttaggaggcc cccaagaatt cttaccctga tggggcttcc 420
 aggtccttcc agtctctgcc atttcccaat atgagagctc atctgcgcga ggagccttcc 480
 gaagatcaag gacccagcca agggccaggt gcaaggacag gagcagcaga aacaagatcc 540
 gaagtcttcc tgcagccat 559

<210> 190

<211> 471

<212> DNA

<213> Rattus norvegicus

<400> 190
 atggctgcag gaagacttcg gatcttgttt ctgctgctcc tgtccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctcct gcggcagatg agctctcatc tggaaaaatg 120
 gcagagactg gaaggacactg gaagccccat cagggtaaca acaatgtccg ctttccaaga 180
 gccttacctg gtttgcggc gctgtggagc ctgaccctac cagtgctga gcttggcctg 240
 ggctatgcct cagaggagaa gattatcttgcgatactgtc ctggcagctg tccccaaagag 300
 gtccgtaccc agcacagtct ggtgctggcc cgtcttcgag ggcagggtcg agctcatggc 360
 agaccttgct gccagccac cagctatgct gatgtgacct tccttgcgtca ccaccaccat 420
 tggcagcagc tgcctcagct ctcagccgcga gcttggctgt gtggcgt 471

<210> 191
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<400> 191
 tcagccacca cagccacaag ctgcggctga gagctgaggc agctgctgcc aatggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcaaggc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctctgggg 180
 acagctgcca gcacagtatac ggaagataat cttctcctct gaggcatagc ccaggccaag 240
 ctcagccact ggtagggtca ggctccacag ccggcacaaa ccaggttaagg ctcttggaaag 300
 gcggacattt ttgttaccct gatggggctt ccaggtcctt ccagtcctg ccattttccc 360
 agatgagagc tcatctgccc caggagcctc ttgaagatca aggaccagc caaggcccag 420
 gtgcaaggac aggagcagca gaaacaagat ccgaagtctt cctgcagcca t 471

<210> 192
 <211> 180
 <212> DNA
 <213> Rattus norvegicus

<400> 192
 atggctgcag gaagacttcg gatcttgttt ctgctgctcc tgccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctct gcggcagatg agctctcatc tggaaaaatg 120
 gcagagactg. gaaggacctg gaaggccat caggtaaca acaatgtccg cttccaaga 180

<210> 193
 <211> 180
 <212> DNA
 <213> Rattus norvegicus

B
 <400> 193
 tcttggagg cggacattgt ttgttaccctg atggggcttc caggtccttc cagtctctgc 60
 cattttccca gatgagagct catctgccgc aggagcctct tgaagatcaa ggaccaggcc 120
 aaggcccagg tgcaaggaca ggagcagcag aaacaagatc cgaagtcttc ctgcagccat 180

<210> 194
 <211> 291
 <212> DNA
 <213> Rattus norvegicus

<400> 194
 gccttacctg gtttgtgccg gctgtggagc ctgaccctac cagtggtga gcttggcctg 60
 ggctatgcct cagaggagaa gattatcttc cgataactgtg ctggcagctg tccccaaagag 120
 gtccgtaccc agcacagtct ggtgctggcc cgtcttcgag ggcagggtcg agctcatggc 180
 agaccttgct gccagccac cagctatgct gatgtgaccc tcccttgcg ccaccaccat 240
 tggcagcagc tgcctcagct ctcagccgca gcttggcgt gtggcgtg a 291

<210> 195
 <211> 291
 <212> DNA
 <213> Rattus norvegicus

<400> 195
 tcagccacca cagccacaag ctgcggctga gagctgaggc agctgctgcc aatggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcaaggtc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctcttgggg 180
 acagctgcca gcacagtatc ggaagataat ctttcctct gaggcatagc ccaggccaag 240
 ctcagccact ggtagggtca ggctccacag ccggcacaaa ccaggttaagg c 291

<210> 196
 <211> 156
 <212> PRT
 <213> Rattus norvegicus

<400> 196
 Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu 15
 1 5 10
 His Leu Gly Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Pro Ala Ala 30
 20 25 30
 Asp Glu Leu Ser Ser Gly Lys Met Ala Glu Thr Gly Arg Thr Trp Lys 45
 35 40 45
 Pro His Gln Gly Asn Asn Asn Val Arg Leu Pro Arg Ala Leu Pro Gly 60
 50 55 60
 Leu Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu 80
 65 70 75 80
 Gly Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser 95
 85 90 95
 Cys Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu 110
 100 105 110
 Arg Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser 125
 115 120 125
 Tyr Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu 140
 130 135 140
 Pro Gln Leu Ser Ala Ala Cys Gly Cys Gly 155
 145 150 155

B₂₂
 <210> 197
 <211> 60
 <212> PRT
 <213> Rattus norvegicus

<400> 197
 Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu 15
 1 5 10
 His Leu Gly Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Pro Ala Ala 30
 20 25 30
 Asp Glu Leu Ser Ser Gly Lys Met Ala Glu Thr Gly Arg Thr Trp Lys 45
 35 40 45
 Pro His Gln Gly Asn Asn Asn Val Arg Leu Pro Arg 60
 50 55 60

<210> 198
 <211> 96
 <212> PRT

<213> Rattus norvegicus

<400> 198
 Ala Leu Pro Gly Leu Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr
 20 25 30
 Cys Ala Gly Ser Cys Pro Gln Glu Val Arg Thr Gln His Ser Leu Val
 35 40 45
 Leu Ala Arg Leu Arg Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60
 Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp His His His
 65 70 75 80
 Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly
 85 90 95

<210> 199

<211> 291

<212> DNA

<213> Homo sapiens

<400> 199
 gcccgtctg gtccatgcc a gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 60
 ggctacgcct c agaggagaa ggtcatcttc cgctactgcg ccggcagctg ccccccgtgg 120
 gcccgcaccc a gcatggcct ggcgctggcc cggctgcagg gccagggccg agcccacgg 180
 gggccctgct g cccggccac tcgctacacc gacgtggcct tcctcgatga cccgcacccg 240
 tggcagcggc t gccccagct ctccggcggct gcctgcggct gtggtggctg a 291

B
22
 <210> 200

<211> 291

<212> DNA

<213> Homo sapiens

<400> 200
 tcagccacca c agccgcagg c agccgccc a gagctggggc agccgctgcc agcgggtggcg 60
 gtcatcgagg a a ggcacgt c ggtgttagcg a gtggggccgg c agcagggcc caccgtggc 120
 tcggccctgg c cctgcagcc gggccagcgc c agccatgc tgggtgcggg caccacggg 180
 gca gctgccc g cgcagtagc ggaagatgac cttctcttct gaggcgtagc ccaggcctag 240
 ctctgccacg gacagggtca g gctccacag ctggcatgga ccagacaggg c 291

<210> 201

<211> 291

<212> DNA

<213> Homo sapiens

<400> 201
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 ggctacgcct c agaggagaa ggtcatcttc cgctactgcg ccggcagctg ccccccgtgg 120
 gcccgcaccc a gcatggcct ggcgctggcc cggctgcagg gccagggccg agcccacggc 180
 gggccctgct g cccggccac tcgctacacc gacgtggcct tcctcgatga cccgcacccg 240

tggcagcggc tgccccagct ctcggcggct gcctgcggct gtggtggctg a 291

<210> 202

<211> 291

<212> DNA

<213> Homo sapiens

<400> 202
 tcagccacca cagccgcagg cagccgcccga gagctggggc agccgctgcc agcgggtggcg 60
 gtcatcgagg aaggccacgt cggtagcg agtggggccgg cagcagggcc cggcgtgggc 120
 tcggccctgg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
 gcagctgccc gcgcagtagc ggaagatgac cttctctct gaggcgtagc ccaggcctag 240
 ctctgccacg gacagggtca ggctccacag ctggcatgga ccagacaggg c 291

<210> 203

<211> 471

<212> DNA

<213> Homo sapiens

<400> 203
 atggccgtag ggaagttctt gctgggctct ctgctgctcc tgtccctgca gctgggacag 60
 ggctggggcc ccgatgcccgg tggggttccc gtggccgatg gagagttctc gtctgaacag 120
 gtggcaaagg ctggagggac ctggctgggc acccaccggc cccttgcccg cctgcgcccga 180
 gcccctgtctg gtccatgcca gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 240
 ggctacgcct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg ccccccgtgt 300
 gcccgcaccc agcatggcct ggctggcc cggctgcagg gccagggccg agccccacggt 360
 gggccctgct gcccggccac tcgctacacc gacgtggct tcctcgatga ccggcaccgc 420
 tggcagcggc tgccccagct ctcggcggct gcctgcggct gtggtggctg a 471

B
22

<210> 204

<211> 471

<212> DNA

<213> Homo sapiens

<400> 204
 tcagccacca cagccgcagg cagccgcccga gagctggggc agccgctgcc agcgggtggcg 60
 gtcatcgagg aaggccacgt cggtagcg agtggggccgg cagcagggcc caccgtgggc 120
 tcggccctgg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
 gcagctgccc gcgcagtagc ggaagatgac cttctctct gaggcgtagc ccaggcctag 240
 ctctgccacg gacagggtca ggctccacag ctggcatgga ccagacaggg ctcggcgcag 300
 gcgggcaagg gggcggtggg tgccctgcca ggtccctcca gcctttgcca cctgttcaga 360
 cgagaactct ccatcgccca cggaaacccc acgggcatcg gggccccagc cctgtccca 420
 ctgcagggac aggagcagca gagagcccaag caggaacttc cctacggcca t 471

<210> 205

<211> 471

<212> DNA
<213> Homo sapiens

<400> 205
atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgtccctgca gctgggacag 60
ggctggggcc ccgatgcccg tggggttccc gtggccgatg gagagttctc gtctgaacag 120
gtggcaaagg ctggaggac ctggctggc acccaccgccc cccttgcggc cctgcgcccga 180
gcccctgtctg gtccatgcca gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 240
ggctacgcct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg ccccccgtgg 300
gccccgcaccc agcatggcct ggcgctggcc cggctgcagg gccaggccg agccccacggc 360
ggggccctgct gccggccac tcgctacacc gacgtggcct tcctcgatga ccgccaccgc 420
tggcagcggc tgccccagct ctcggcggct gcctgcggct gtggtggctg a 471

<210> 206
<211> 471
<212> DNA
<213> Homo sapiens
<400> 206
tcagccacca cagccgcagg cagccgcccga gagctggggc agccgctgcc agcgggtggcg 60
gtcatcgagg aaggccacgt cggtgttagcg agtggggccgg cagcaggccc cggccgtggc 120
tcggccctgg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
gcagctgccc gcgcagtagc ggaagatgac cttctcctct gaggcgtagc ccaggcctag 240
ctctgcccacg gacagggtca ggctccacag ctggcatgga ccagacaggg ctcggcgcag 300
gcgggcaagg gggcggtggg tgcccagcca ggtccctcca gccttgcga cctgttcaga 360
cgagaactct ccatcgccca cggaaacccc acgggcatcg gggcccccagc cctgtcccag 420
ctgcagggac aggagcagca gggagccag caggaacttc cctacggcca t 471

B
28
<210> 207
<211> 69
<212> DNA
<213> Homo sapiens
<400> 207
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ggctggggc 69

<210> 208
<211> 69
<212> DNA
<213> Homo sapiens
<400> 208
gccccagccc tgtcccaagct gcagggacag gagcagcaga gagcccaagca ggaacttccc 60
tacggccat 69

<210> 209
<211> 69
<212> DNA

<213> Homo sapiens

<400> 209
 atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgtccctgca gctggacag 60
 ggctggggc 69

<210> 210
 <211> 69
 <212> DNA
 <213> Homo sapiens

<400> 210
 gccccagccc tgtcccagct gcagggacag gagcagcagg gagccagca ggaacttccc 60
 tacggccat 69

<210> 211
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 211
 cccgatgccc gtggggttcc cgtggccat ggagagttct cgtctgaaca ggtggcaaag 60
 gctggaggga cctggctggg caccacccgc ccccttgcac gcctgcgcgg a 111

<210> 212
 <211> 111
 <212> DNA
 <213> Homo sapiens

B
 <400> 212
 tcggcgcagg cgggcaaggg ggccgtgggt gcccagccag gtccctccag ctttgcac 60
 ctgttcagac gagaactctc catcgccac gggAACCCCA cgggcattcg g 111

<210> 213
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 213
 atggccgtag ggaagttcct gctgggctct ctgctgctcc tgtccctgca gctggacag 60
 ggctggggcc ccgatgccc tggttccc gtggccatg gagagttctc gtctgaacag 120
 gtggcaaagg ctggaggac ctggctggc acccaccgc cccttgcac gcctgcgcga 180

<210> 214
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 214
 tcggcgcagg cgggcaaggg ggccgtgggt gcccagccag gtccctccag ctttgcac 60
 ctgttcagac gagaactctc catcgccac gggAACCCCA cgggcattcg ggccccagcc 120
 ctgtcccagc tgcaggaca ggagcagcag agagccacg aggaacttcc ctacggccat 180

<210> 215

<211> 180
 <212> DNA
 <213> Homo sapiens

<400> 215
 atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgtccctgca gctgggacag 60
 ggctggggcc ccgatgcccc tggggttccc gtggccgatg gagagttctc gtctgaacag 120
 gtggcaaagg ctggagggac ctggctggc acccaccgccc cccttgcccg cctgcgcccga 180

<210> 216
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 216
 tcggcgcagg cgggcaaggg ggcgggtgggt gcccagccag gtccctccag ccttgccac 60
 ctgttcagac gagaactctc catcgccac gggAACCCCA cgggcatcg ggccccagcc 120
 ctgtcccagc tgcagggaca ggagcagcag ggagcccagc aggaacttcc ctacggccat 180

<210> 217
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
 1 5 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45

Leu Gly Thr His Arg Pro Leu Ala Arg Leu Arg Arg Ala Leu Ser Gly
 50 55 60

Pro Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala Glu Leu Gly Leu
 65 70 75 80

Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser
 85 90 95

Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu
 100 105 110

Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg
 115 120 125

Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu
 130 135 140

Pro Gln Leu Ser Ala Ala Cys Gly Cys Gly
 145 150 155

<210> 218
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 218

Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
 1 5 10 15
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45
 Leu Gly Thr His Arg Pro Leu Ala Arg Leu Arg Arg
 50 55 60

<210> 219
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 219
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Ser Leu
 1 5 10 15
 Gln Leu Gly Gln Gly Trp Gly
 20

<210> 220
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 220
 Pro Asp Ala Arg Gly Val Pro Val Ala Asp Gly Glu Phe Ser Ser Glu
 1 5 10 15
 Gln Val Ala Lys Ala Gly Gly Thr Trp Leu Gly Thr His Arg Pro Leu
 20 25 30

B
 22
 Ala Arg Leu Arg Arg
 35

<210> 221
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 221
 Ala Leu Ser Gly Pro Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala
 1 5 10 15
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30
 Cys Ala Gly Ser Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala
 35 40 45

Leu Ala Arg Leu Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys
 50 55 60
 Arg Pro Thr Arg Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg
 65 70 75 80

Trp Gln Arg Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 85 90 95

<210> 222

<211> 267
 <212> DNA
 <213> Homo sapiens

<400> 222
 tgccagctgt ggagcctgac cctgtccgtg gcagagctag gcctggct a cgcctcagag
 60
 gagaaggta tcttccgcta ctgcgcggc agctgcccc gtgggtcccc cacccagcat
 120
 ggcctggcgc tggcccgct gcagggccag ggccgagccc acggtggcc ctgctgccgg
 180
 cccactcgct acaccgacgt ggccttcctc gatgaccgccc accgctggca gcccgtgcc
 240
 267
 cagctctcg cggctgcctg cggctgt

<210> 223
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 223
 Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
 20 25 30
 Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln
 35 40 45
 Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr
 50 55 60
 Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu Pro
 65 70 75 80
 Gln Leu Ser Ala Ala Cys Gly Cys
 85

B
 22

<210> 224
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 224
 Ala Leu Ser Gly Pro
 1 5

<210> 225
 <211> 24
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)
 <223> s = c or g

 <220>
 <221> misc_feature
 <222> (5)
 <223> s = c or g

 <220>
 <221> misc_feature

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<222> (6)
<223> y = t or c

<220>
<221> misc_feature
<222> (9)
<223> s = c or g

<220>
<221> misc_feature
<222> (10)
<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> y = t or c

<220>
<221> misc_feature
<222> (24)
<223> y = t or c

<400> 225
gtsasygasy tgggyctggg ctay

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24

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<210> 226
<211> 24
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)
<223> y = t or c

<220>
<221> misc_feature
<222> (4)
<223> m = a or c

B
<220>
<221> misc_feature
<222> (6)
<223> s = c or g

<220>
<221> misc_feature
<222> (13)
<223> r = a or g

<220>
<221> misc_feature
<222> (14)
<223> s = c or g

<220>
<221> misc_feature
<222> (15)
<223> m = a or c

<220>
<221> misc_feature
<222> (19)
<223> k = t or g

<220>

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<221> misc_feature
<222> (21)
<223> y = t or c

<400> 226
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<210> 227
<211> 24
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> r = a or g

<220>
<221> misc_feature
<222> (2)
<223> w = a or t

<220>
<221> misc_feature
<222> (7)
<223> s = c or g

<220>
<221> misc_feature
<222> (8)
<223> r = a or g

<220>
<221> misc_feature
<222> (10)
<223> s = c or g

B
22
<220>
<221> misc_feature
<222> (13)
<223> k = t or g

<220>
<221> misc_feature
<222> (15)
<223> k = t or g

<220>
<221> misc_feature
<222> (19)
<223> r = a or g

<220>
<221> misc_feature
<222> (22)
<223> k = t or g

<220>
<221> misc_feature
<222> (24)
<223> s = c or g

<400> 227
      rwaggcsrts ggkckgarc akgs

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24

<210> 228

<211> 21
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)
 <223> m = a or c

<220>
 <221> misc_feature
 <222> (2)
 <223> k = g or t

<220>
 <221> misc_feature
 <222> (4)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (7)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (9)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (10)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (13)
 <223> s = c or g

B22
 <220>
 <221> misc_feature
 <222> (18)
 <223> s = c or g

<220>
 <221> misc_feature
 <222> (19)
 <223> s = c or g

<400> 228
 mkcrtcyarr aasgacacst c

21

<210> 229
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 229
 cggcttgtga ccgagctggg cctgggctac gcctcagagg agaaggtcat cttccgctac 60

tgcgccggca gctgcccccg tggtgcccgcc acccagcatg gcctggcgct ggcccggtg 120

cagggccagg gcccagccca cggcgggccc tgctgcccgc ccatggcc 168

<210> 230
 <211> 20

<212> DNA
<213> Homo sapiens

<400> 230
gaggagaagg tcatcttccg

20

<210> 231
<211> 20
<212> DNA
<213> Homo sapiens

<400> 231
gccgtgggct cggccctggc

20

<210> 232
<211> 24
<212> DNA
<213> Homo sapiens

<400> 232
agaggagaag gtcatcttcc gcta

24

<210> 233
<211> 20
<212> DNA
<213> Homo sapiens

<400> 233
ctcggccctg gccctgcagc

20

<210> 234
<211> 20
<212> DNA
<213> Homo sapiens

B
BB
<400> 234
tgca gccggg ccagcggcag

20

<210> 235
<211> 31
<212> DNA
<213> Homo sapiens

<400> 235
cgcgatcca tgcctggatt cgagggtgca g

31

<210> 236
<211> 31
<212> DNA
<213> Homo sapiens

<400> 236
cgcgatcca tggccgtagg gaagttcctg c

31

<210> 237
<211> 60
<212> DNA
<213> Homo sapiens

<400> 237
ctcccaagct ttacttgtc atcgctgtcc ttgttagtcgc caccacagcc gcaggcagcc

60

<210> 238
 <211> 59
 <212> DNA
 <213> Homo sapiens

<400> 238
 ctcccaagct tttacttgc atcgctgtcc ttgttagtctc gaggaaggcc acgtcggtg

59

<210> 239
 <211> 25
 <212> DNA
 <213> Homo sapiens

<400> 239
 tcagccacca cagccgcagg cagcc

25

<210> 240
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 240
 Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln
 5 10 15

Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg Gly Gln
 20 25 30

Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp
 35 40 45

Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro Gln Leu
 50 55 60

Ser Ala Ala Ala Cys Gly Cys Gly Gly
 65 70

B
22

<210> 241
 <211> 93
 <212> PRT
 <213> Rattus norvegicus

<400> 241
 Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 5 10 15

Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30

Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45

Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60

Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
 65 70 75 80

His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
 85 90

<210> 242

<211> 93
<212> PRT
<213> Mus musculus

<400> 242
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
5 10 15

Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30

Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45

Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60

Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
65 70 75 80

His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
85 90
